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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,572	02/04/2005	Markku Kyytsonen	BERGPAT-7	5127
36528	7590	08/13/2007		
STIENNON & STIENNON 612 W. MAIN ST., SUITE 201 P.O. BOX 1667 MADISON, WI 53701-1667			EXAMINER NGUYEN, JIMMY T	
			ART UNIT 3725	PAPER NUMBER
			MAIL DATE 08/13/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Interview Summary

Application No.

10/516,572

Applicant(s)

KYYTSONEN, MARKKU

Examiner

Jimmy T. Nguyen

Art Unit

3725

All participants (applicant, applicant's representative, PTO personnel):

(1) Jimmy T. Nguyen.

(3) _____.

(2) Patrick Stiennon.

(4) _____.

Date of Interview: 02 July 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☒ Yes e) ☐ No.

If Yes, brief description: a faxed copy of a proposed amendment to the drawings and the claims for discussion only (see attached).

Claim(s) discussed: all claims.

Identification of prior art discussed: N/A.


Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.


(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.


JIMMY T. NGUYEN - EXAMINER
AO 3725
Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The proposed amendment to claim 21 sufficiently overcomes the 35 USC 112 first paragraph rejection as set forth in the last Office action. The proposed amendment to claim 9 and the new claim 22 are not approved with regard to the limitation "casings" of the first, second and third intermediate rollers because there is no antecedent basis for this claimed limitation in the specification. The applicant's attorney agreed to correct claim 9 and its dependent claims in order to comply with the original disclosure. The Applicant's attorney agreed to file an RCE because the amendment to claim 21 raises new issues, which would require further consideration/search.



JIMMY T. NAYEN

*For discussion
only. Do not enter
JTW - 7/2/07*

Patent Attorneys

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Fax to: **Jimmy T. Nguyen**
United States Patent Office

At Fax Number: **1-571-273-4520**
From: Patrick Stiennon
Date: June 25, 2007
Time: _____
Our Reference: **BERGPAT-7**

Your Reference: 10/516,572

This transmission has 11 pages (including this sheet)

Issues for discussion at interview *2pm EDT Today*

1. Is the lack of antecedent basis for "roll shell" corrected by correctly referring to --rolls having casings--.
2. Applicant has amended FIG. 1 and Paragraph [0027] to provide support for claims 12-15.

Transmission Completed

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WO 03/104553

Amended
2/2

PCT/FR03/00445

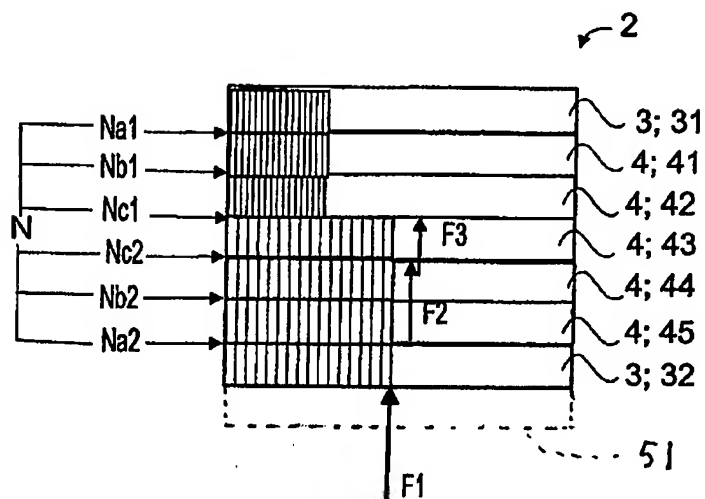


Fig. 2

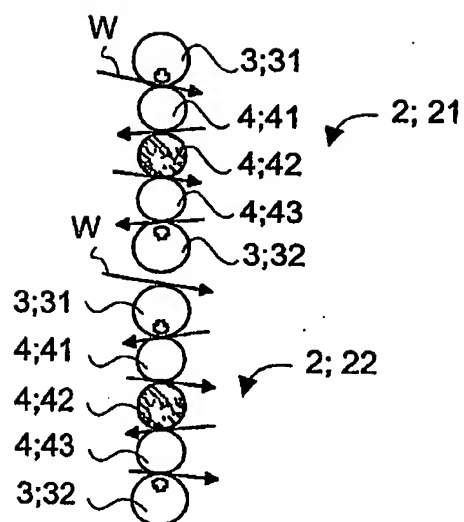


Fig. 3A

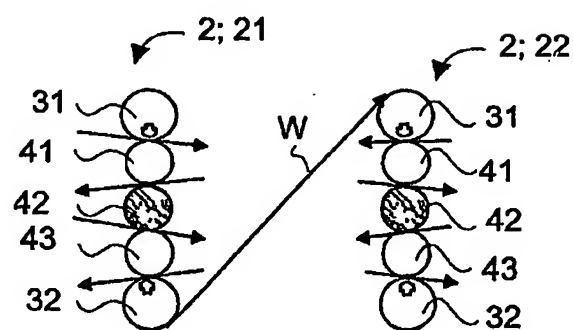


Fig. 3B

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[0027] Nc1 on the other side of the intermediate roll. The additional load F1 and the loads F2 and F3 are marked approximately to the middle point of the lower roll and the roll nips as resultant forces; in fact, the load forces in question are distributed to the length of the whole lower roll and the roll nips Nc1 and Nc2. The linear load F2 achieved by the additional load F1 in the roll nip Nc2 between the fixed intermediate roll 32 and the intermediate roll 44 is considerably bigger than the linear load F3 in the roll nip Nc1 between the fixed intermediate roll 43 and the intermediate roll 42, due to the rigid fastening of the intermediate roll 4; 43. The additional load F1 could as well be brought to the upper roll 31, in which case the additional load would cause a linear load in the roll nip Nc1 between the fixedly attached intermediate roll 43 and the intermediate roll 42, respectively, which would be considerably bigger than the linear load in the roll nip Nc2 between the fixed intermediate roll 43 and the intermediate roll 44. The additional load can be brought to the lower/upper roll either by internal loading devices of the said upper and lower rolls 3; 31, 32, with which the deflections usually caused by the gravity of the said rolls are compensated or, alternatively, the load can be brought to the said rolls using an outside force, such as a roll 51 outside the set of rolls, with which, for example, the lower roll 32 would be pressed towards the intermediate rolls 4 in the direction of the set of rolls. The direction of the plane of the set of rolls is the same as the direction of the plane drawn through the central line of the rolls in the set of rolls.

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*for discussion
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Claim Listing

1-8. (cancelled)

9. (currently amended) A multi-nip calender for calendering a fiber web, the calender comprising:

a first set of rolls attached to a first frame, the first set of rolls having a first roll, a last roll, and a first intermediate roll between the first roll and the last roll, a second intermediate roll between the first intermediate roll and ~~[[roll]]~~ the last roll, and a third intermediate roll between the second intermediate roll and ~~[[roll]]~~ the last roll;

wherein the first, the second, and the third intermediate rolls have casings and are lacking in internal devices for loading or moving said casings ~~the rolls shell~~, and wherein the second intermediate roll being rotatable about an axis which is fixed with respect to the frame, and the first and second intermediate rolls are mounted for vertical motion on the frame;

wherein the first roll and the last roll are polymer-coated rolls each having a casing which is movable with respect to a portion fixed to the first frame, and each having an internal loading device with which the casing is movable toward the second intermediate roll; and

a plurality of roll nips is defined between the rolls of the first set of rolls, such that the rolls from the first roll to the last roll alternate between polymer-coated rolls and metal rolls, and the roll nips in the set of rolls are closed by moving the casing of the first roll with its internal loading device in ~~[[the]]~~ a first direction parallel to a plane extending through the set of rolls toward the second intermediate roll, and the roll nips in the set of rolls are closed by moving the casing of the last roll with its internal loading device in a second ~~[[the]]~~ direction opposite the first direction and parallel to the plane extending through the set of rolls, towards the second intermediate roll.

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10. (currently amended) The multi-nip calender of claim 9 further comprising at least one ~~or more~~ additional intermediate roll ~~[[rolls]]~~, said at least one additional intermediate roll ~~each additional intermediate roll~~ having an axis which is movable with respect to the frame, said at least one additional intermediate roll ~~each additional intermediate roll~~ being positioned between the second intermediate roll and the first roll or between the second intermediate roll and the last roll.

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11. (currently amended) The multi-nip calender of claim 10, in which said at least one intermediate roll ~~each additional intermediate roll~~, and the first intermediate roll and third intermediate roll has equipment for lightening its weight.

12. (currently amended) The multi-nip calender of claim 10 in which ~~[[the]]~~ a linear load distribution of the roll nips in the set of rolls is controlled by an additional load brought to the first and/or last roll in the set of rolls, wherein:

the additional load of the first roll in the set of rolls is used for influencing the linear loads of the roll nips ~~of the second intermediate rolls~~ between the first intermediate roll and the last roll to a substantially lesser extent than the linear loads of the roll nips between the first intermediate roll and the first roll; and the additional load of the last roll in the set of rolls is used for influencing the linear loads of the roll nips ~~of the second intermediate rolls~~ between the first intermediate roll and the first roll to a substantially lesser extent than the linear loads of the roll nips between the first intermediate roll and the last roll.

13. (currently amended) The multi-nip calender of claim 12 wherein the additional load is brought to the first and/or last roll in the set of rolls using a loading element outside ~~[[the]]~~ said roll.

14. (previously presented) The multi-nip calender of claim 13 wherein the loading element is a roll.

15. (currently amended) The multi-nip calender of claim 12 wherein the additional load is brought to the first and/or last roll in the set of rolls using the internal loading device of ~~[[the]]~~ said first and/or last roll.

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16. (currently amended) The multi-nip calender of claim 9, wherein the first roll and/or the last roll are shoe rolls, in which the internal loading device comprises one or several shoe elements located under the casing of the roll, at the place of the roll nip, which can be loaded with liquid so that the casing of the [[said]] shoe roll moves in relation to the second intermediate roll in the set of rolls.

17. (currently amended) The multi-nip calender of claim 16, wherein the first roll and/or the last roll [[each shoe roll]] has two or several shoe elements for moving the casing of the first roll and/or the last roll and for profiling the fiber web.

18–20. (Canceled)

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21. (currently amended) A multi-nip calender for calendering a fiber web, the calender comprising:

- a frame;
- a first roll which is a polymer-coated roll having a casing which is movable with respect to a portion fixed to the frame, and the first roll having an internal loading device with which the casing is movable toward ~~[[the]]~~ a first intermediate roll having a first casing;
- a last roll which is a polymer-coated roll having a casing which is movable with respect to a portion fixed to the frame, the last roll having an internal loading device with which the casing is movable toward the intermediate roll, wherein the first intermediate roll is positioned between the first roll and the last roll;
- ~~a first intermediate roll position on the frame between the first roll and the last roll;~~
- a second intermediate roll having a second casing and positioned on the frame between the first intermediate roll and the last roll;
- a third intermediate roll having a third casing and positioned on the frame between the second intermediate roll and the last roll;
- wherein the first, ~~the second, and third~~ intermediate roll~~[[s]]~~ lacking ~~lacks~~ internal device~~[[s]]~~ for loading or moving the first intermediate roll first casing; ~~rolls shell;~~
- wherein the second intermediate roll lacks internal device(s) for loading or moving the second roll second casing;
- wherein the third intermediate roll lacks internal device(s) for loading or moving the third roll casing; and
- wherein the second intermediate roll is rigidly mounted to the frame, and the first and ~~second~~ third intermediate rolls are mounted for vertical motion on the frame;
- at least one ~~second~~ fourth intermediate roll positioned between the first roll and the first intermediate roll, and at least one ~~second~~ fifth intermediate roll positioned between the ~~first~~ third intermediate roll and the last roll, the forth and fifth

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~~each second~~ intermediate rolls each having an axis which is movable with respect to the frame; and

a plurality of roll nips defined between the first roll, the fourth intermediate roll, the first intermediate roll, the second intermediate roll, the third intermediate roll, the fifth intermediate roll and the last roll, rolls such that the rolls from the first roll to the last roll alternate between polymer-coated rolls and metal rolls, and ~~the roll nips are closed so that~~ [[the]] roll nips between the first roll and the ~~first~~ second intermediate roll are closeable ~~closed~~ by moving the casing of the first roll with its internal loading device in [[the]] a first direction towards the ~~first~~ second intermediate roll, and so that [[the]] roll nips between the last roll and the ~~first~~ second intermediate roll are closeable ~~closed~~ by moving the casing of the last roll with its internal loading device in a second direction opposite the first direction towards the ~~first~~ second intermediate roll.

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22. (new) The multi-nip calender of claim 9 further comprising a second set of rolls mounted to a second frame after the first set of rolls, the second set of rolls comprising:

- a first roll;
- a last roll;
- a first intermediate roll between the first roll and the last roll;
- a second intermediate roll between the first intermediate and the last roll; and
- a third intermediate roll between the second intermediate and the last roll;

wherein the first intermediate roll, the second intermediate roll, and the third intermediate roll have casings and are lacking in internal device(s) for loading or moving said casings;

wherein the second intermediate roll is rotatable about an axis which is fixed with respect to the frame, and the first intermediate roll and the second intermediate roll are mounted for vertical motion on the frame, and wherein the first roll and the last roll are polymer-coated rolls each having a casing which is movable with respect to a portion fixed to the second frame, and each having an internal loading device with which the casing is movable toward the second intermediate roll; and

a plurality of roll nips is defined between the rolls of the second set of rolls, such that the rolls from the first roll to the last roll alternate between polymer-coated rolls and metal rolls, and the roll nips in the second set of rolls are closed by moving the casing of the first roll with its internal loading device in a first direction parallel to a plane extending through the second set of rolls toward the second intermediate roll, and the roll nips in the set of rolls are closed by moving the casing of the last roll with its internal loading device in a second direction opposite the first direction and parallel to the plane extending through the second set of

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rolls, towards the second intermediate roll.

23. (new) The multi-nip calender of claim 22 wherein the first frame and the second frame are a single frame.

24. (new) The multi-nip calender of claim 22 wherein the first frame and the second frame are different frames.